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## RAIN—GOLD

Ore body names: Main, Southeast Extension

Commodities: Au, Ag  
(Au-Ag ratio = 10-20:1)

## LOCATION-OWNERSHIP

County ..... Elko.  
Mining district ..... ~~Carlin~~  
Elevation ..... 2,070 m.  
Topography ..... Hilly.  
Domain ..... Possibly private.

General location ..... About 14 km southeast of Carlin.  
Meridian ..... Mount Diablo.  
Tract ..... Sec. 3, T 31 N, R 53 E.  
..... Sec. 33, T 32 N, R 53 E.  
Latitude ..... 40°36'35" N.  
Longitude ..... 116°00'25" W.

Owner ..... Newmont Mining Corp., New York, NY (1985).  
Operator ..... Carlin Gold Mining Co., Carlin, NV (subsidiary of Newmont Mining Corp.) (1985).

## GEOLOGY

Type of ore body ..... Epithermal, disseminated, sediment-hosted.  
Origin ..... Hydrothermal, epithermal.  
Shape of ore body ..... West-northwest elongate manto.  
Ore controls ..... Faulting, fracturing, lithology  
..... (minor).  
Strike and dip of mineralized zone ..... N 30° to 40° W: dip southwest  
Mineralized zone average dimensions, m:  
Length ..... About 730.  
Thickness ..... 110 (maximum).  
Depth ..... 46.  
Mineral names ..... Gold, quartz, barite, limonite,  
..... manganese oxides, hematite, jarosite, calcite, illite, kaolinite.

Host formation ..... Webb.  
Geologic age ..... Mississippian.  
Rock relationships ..... Jasperoid breccia, contains ore.  
..... Siltstone and breccia, contains ore.  
..... Sandstones, contains ore.  
..... Shales, contains ore.  
Alteration ..... Silicification, oxidation, argillization, baritization, bleaching.  
Size ..... Small.

## DEVELOPMENT

Current status ..... Active-exploration, feasibility, standby.  
Type of operation ..... Surface  
Mining method ..... Proposed open pit.  
Year of discovery ..... 1980.  
Discovery method ..... Geochemical-rock chip sample,  
..... drilling.  
Initial production ..... Pending development; possibly 1990's.  
Past production ..... None.

Mill location ..... Likely will be co-located with mine.  
Mill status ..... No mill.  
Milling method ..... Cyanide heap leach probable.

## PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1..Not reported in reference	8,300,000 tons	0.083 tr oz/ton Au (ore in-place)	1983	511
Above contains	3,400,000 tons	0.147 tr oz/ton Au	1983	511

## REFERENCES

27, 59, 61, 90, 118, 224, 226, 319, 350, 363, 511, 581,  
663, 664, 665, 669.

USGS quad maps ..... Winnemucca, 1:250,000.  
..... Dixie Flats, 15'.  
USBM sequence number ..... 0320070271.

Comments: Development of the Rain deposit is expected to recommence after Gold Quarry goes into production. Further drilling may disclose greater reserves as the ore body is reportedly open at depth and to the east. Ore is in fractures and occurs in the axis of a regional north-northwest plunging antiform. At Rain, the antiform is marked by a high-angle reverse fault trending west-northwest and dipping steeply southwest.



**Information Circular 9035**

# **Principal Deposits of Strategic and Critical Minerals in Nevada**

**By N. T. Lowe, Russell G. Raney, and John R. Norberg**



**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**Donald Paul Hodel, Secretary**

**BUREAU OF MINES**  
**Robert C. Horton, Director**